

20031015.qrp v03_n074.qrl.20031015

Date: Wed, 15 Oct 2003 19:03:12 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 3074

QRP-L Digest 3074

Topics covered in this issue include:

- 1) [159353] Making your own resistor web site
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 2) [159354] FS Norcal keyer built
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- 3) [159355] QRP Oldies: the HW-7,8 and 9?
by ARDUJENSKI@aol.com
- 4) [159356] QRL Potential Problem.
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- 5) [159357] 30 meter vertical ?
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- 6) [159358] FS: NorCal BLT Kit
by Ron Evans <cosmos41@ix.netcom.com>
- 7) [159359] BQ9P
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- 8) [159360] Re: 30 meter vertical ?
by "sslyon" <sslyon@megalink.net>
- 9) [159361] Have you had a prob with '817 pwr connector?
by "Paul Gerhardt" <pgerhardt@hotmail.com>
- 10) [159362] RE: 30 meter vertical ?
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 11) [159363] WTT for K2
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 12) [159364] Fall QSO Party Suggestions
by Randy Foltz <rfoltz@turbonet.com>
- 13) [159365] 80m is hot tonight
by "John Harper" <john@ae5x.com>
- 14) [159366] Help needed understanding the ANC-4
by <jhs001@heronetwork.com>
- 15) [159367] OT: Old cell phone conversions
by "Mike Majority" <n4vbv@earthlink.net>
- 16) [159368] KX1 questions/observations
by <bill@n4qa.com>
- 17) [159369] Re: Making your own resistor web site
by Steven Weber <kd1jv@moose.ncia.net>
- 18) [159370] Re: 30 meter vertical ?
by "Jeff Imel" <jeffimel@hotmail.com>
- 19) [159371] Re: OT: Old cell phone conversions

- by "Dennis W. Farrell" <dennisw.farrell@verizon.net>
- 20) [159372] More on "Magic Eraser"
by Ed Tanton <n4xy@earthlink.net>
- 21) [159373] Re: QRL Potential Problem.
by "Dennis Ponsness" <wb0wao@hotmail.com>
- 22) [159374] New Elecraft Mini-Module Kits (N-gen, BL1, DL1)
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
- 23) [159375] Fwd: Spotting China's Shenzhou V spacecraft
by Ed Tanton <n4xy@earthlink.net>
- 24) [159376] Re: Making your own resistor web site
by "Leon Heller" <leon_heller@hotmail.com>
- 25) [159377] Re: 30 meter vertical ?
by "Leon Heller" <leon_heller@hotmail.com>
- 26) [159378] Off Topic
by "Royce Simmons" <w2rbn@frontiernet.net>
- 27) [159379] Re: 80m is hot tonight
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 28) [159380] Re: QRL Potential Problem
by John R Kirby <n3aaz-qrp@juno.com>
- 29) [159381] AMTA 2003 - Irvine, CA
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 30) [159382] Re: QRL Potential Problem.
by "Tony Martin W4FOA" <w4foa@comcast.net>
- 31) [159383] F/S Palm m125
by "Rod N0RC" <rod@n0rc.us>
- 32) [159384] Antenna Tuner Question
by Ron Evans <cosmos41@ix.netcom.com>
- 33) [159385] External Ground Connection on K-1
by Ron Evans <cosmos41@ix.netcom.com>
- 34) [159386] Re: QRL Potential Problem.
by "John Sielke" <jsielke@pobox.com>
- 35) [159387] Re: Antenna Tuner Question
by "Mike Yetsko" <myetsko@insydesw.com>
- 36) [159388] RE: QRP Oldies: the HW-7,8 and 9?
by "Boulineau, Lee" <lee.boulineau@attws.com>
- 37) [159389] RE: Wanted: QRP Watt Meter
by "Boulineau, Lee" <lee.boulineau@attws.com>
- 38) [159390] QRP Tube Kits
by "Tim, N9PUZ" <n9puz@arrl.net>
- 39) [159391] Re: QRL Potential Problem.
by "sjolin" <sjolin@swbell.net>
- 40) [159392] KEY comment
by ARDUJENSKI@aol.com
- 41) [159393] F.S. DSWII-20
by "Joseph Trombino Jr" <w2kj@bellsouth.net>
- 42) [159394] Vertical: feed w/Twinlead
by "sslyon" <sslyon@megalink.net>
- 43) [159395] RE: NEQRP SSB NET TONITE 07:30PM EDST 7.288Mhz +- 5Khz

- by "Stephen Finch" <stevef88@msn.com>
- 44) [159396] Re: KEY comment
by "Armin Hachmer" <armin@muskoka.com>
- 45) [159397] Re: QRP Tube Kits
by John Zaruba Jr <aa2bn@comcast.net>
- 46) [159398] Re: Antenna Tuner Question
by "Lew Paceley" <lew@paceley.com>
- 47) [159399] Re: External Ground Connection on K-1
by "George, W5YR" <w5yr@att.net>
- 48) [159400] Re: QRL Potential Problem
by "George, W5YR" <w5yr@att.net>
- 49) [159401] Re: 30 meter vertical ?
by WJurgens@t-online.de (Wolf-Ruediger Juergens)
- 50) [159402] Re: tick 4
by jacksonharbor@att.net
- 51) [159403] For Sale z-11 tuner/SWL40 unbuilt
by "Carl Heidenblad" <carlh@adamslibrary.org>
- 52) [159404] QRPacificon Keyer Kits
by "Doug Hendricks" <ki6ds@dpol.net>
- 53) [159405] Missed a couple of speakers at Pacificon
by "Doug Hendricks" <ki6ds@dpol.net>
- 54) [159406] Re: External Ground Connection on K-1
by "Armin Hachmer" <armin@muskoka.com>
- 55) [159407] Norcal BLT has sold
by Ron Evans <cosmos41@ix.netcom.com>
- 56) [159408] Re: External Ground Connection on K-1
by "George, W5YR" <w5yr@att.net>
- 57) [159409] Results last nights NEQRP SSB NET
by "Ron Pfeiffer" <n1zsw@hotmail.com>
- 58) [159410] Want to Trade for K2
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 59) [159411] Re: 30 meter vertical ?
by Curt Milton <wb8yyy@yahoo.com>
- 60) [159412] Re: QRL Potential Problem.
by Howard Oakley <hoakley@btconnect.com>
- 61) [159413] External Ground Connection on K-1 -- THANKS!!
by Ron Evans <cosmos41@ix.netcom.com>
- 62) [159414] Antenna Tuner Question -- Thanks!!
by Ron Evans <cosmos41@ix.netcom.com>
- 63) [159415] WANTED: MFJ 1025 or 1026 schematic
by <jhs001@heronetwork.com>
- 64) [159416] New AT Sprint Mark II
by Steven Weber <kd1jv@moose.ncia.net>
- 65) [159417] Sub-Harmonic Mixer.
by Blanco Hugo Daniel <blancoh@TELEFONICA.COM.AR>
- 66) [159418] Re: Battery charging question
by Steve.Lawrence@ITWFEG.COM
- 67) [159419] QRPacificon travelers

- by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
68) [159420] Re: 1/2 wave antenna failure
by Steve.Lawrence@ITWFEG.COM
69) [159421] NETXQRP Club Meeting, Saturday 18 October
by Chuck Carpenter <w5usj@9plus.net>
70) [159422] WTB: Signal Generator
by "Carl Heidenblad" <carlh@adamslibrary.org>
71) [159423] Mixers
by Ed Tanton <n4xy@earthlink.net>
72) [159424] Re: QRP Oldies: the HW-7,8 and 9?
by Kevin Gunther <beeltee@optonline.net>
73) [159425] Re: Sub-Harmonic Mixer.
by "Oleg V. Borodin" <master72@lipetsk.ru>

Date: Tue, 14 Oct 2003 14:55:21 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [159353] Making your own resistor web site
Message-ID: <Pine.0SF.4.53.0310141451420.245808@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

Over the thanksgiving weekend I created a javascript program to create the appropriate colour bands for a resistor. I would be interested in peoples thoughts about my program--ways to make it better, mistakes, etc.

In particular I was wondering how one would do the colour code for 1 ohm. Would the first band be black?

Here is the url:

http://duke.usask.ca/~buydens/ham/resistor/make_resistor.html

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
<http://duke.usask.ca/~buydens>
VE5RDV

Date: Tue, 14 Oct 2003 17:10:45 -0400
From: "Martin Hartwell" <chartwell@worldnet.att.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [159354] FS Norcal keyer built
Message-ID: <002a01c3929a\$c398dd60\$c692570c@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All

Since I now have a Idiom Press keyer, I want to get rid of a couple of keyers I have setting around.

1. The Norcal keyer kit assembled in a plastic case, manual and shipping.
 \$20.00
2. SMT keyer kit from Steve Weber, assembled but doesn't work with manual and shipping. \$20.00
3. Ten Tec keyer kit assembled with manual and shipping, works. \$15.00

Please respond direct to: chartwell@worldnet.att.net

Marty kd8bj

Date: Tue, 14 Oct 2003 17:44:45 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [159355] QRP Oldies: the HW-7,8 and 9?
Message-ID: <ca.2322cdf9.2cbdc84d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Except for the occasional HW-8 reference I rarely see the HW-7 or HW-9 used

in any of the sprints. Just curious if any are still using these ORIGINALS or QRP?

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
--- --- --- --- DIT DIT

Date: Tue, 14 Oct 2003 14:29:02 -0700 (PDT)
From: Bob KB2FEL <kb2fel@yahoo.com>
To: Low Power Amateur Radio <qrp-l@lehigh.edu>
Subject: [159356] QRL Potential Problem.
Message-ID: <20031014212902.94873.qmail@web80604.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi All,

We are all aware of the proceedings with the no code issues and HF operating. This is not about that issue. What it is about is a potential problem with QRM and QRN between modes using the same spectrum. This problem came to mind during the 40 meter digital contest. The CW-ops were basically shut down and had to find QSO room on another part of the band. That is not a problem for one or two days out of the year and we can all share the spectrum.

Today I was listening to WD4RPS in QSO with another station on 14.062. In the middle of their first exchange a station started to send what sounded like BPSK over them. Had I been in QSO with WD4RPS I would have lost anything he sent and the QSO would have had to end. Had the BPSK op first listened to the band in CW and sent a QRL. I could have sent C. But that did not happen.

My question is. How can we as amateurs using different modes within the same allocation, stay courteous to each other and play nice in the, sand box we call spectrum?

I think the old plan had Digital above 14.065. I see no such distinction on the ARRL band plan any longer.

Bob

KB2FEL/8

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Date: Tue, 14 Oct 2003 18:34:14 -0400
From: Rick McKee <kc8aon@juno.com>
To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU
Subject: [159357] 30 meter vertical ?
Message-ID: <20031014.183425.9550.8.kc8aon@juno.com>

Been thinking of putting up some sort of vertical antenna for 10 thru 30 meters, and was thinking of a 30 meter dipole fed in the center with 450 ohm balanced feedline mounted vertically. Has anyone tried this and how well did it work out for you ? Just needing something to cover the higher bands and don't want to spend \$300 + for a commercial vertical ! I may even try a 30 meter wire groundplane fed with balanced feedline - any advice ?

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW-20+, SW-30+, SW-40+, Norcal BLT, Norcal Cascade, Yaesu FT-7,
Homebrew 6V6 tube TX & Hallicrafters SW500 RX, PAC-12 Antenna
QRP-L #2112, FPqrp #33, AR QRP, AmQRP, Ohio Valley Fists
I'll give up CW & QRP when I'm dead ! MAYBE ! didididadidah

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Date: Tue, 14 Oct 2003 16:51:11 -0500
From: Ron Evans <cosmos41@ix.netcom.com>
To: qrp-l@lehigh.edu
Subject: [159358] FS: NorCal BLT Kit
Message-ID: <3F8C6FCF.8060902@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

Balanced Line Tuner. Brand new in box, unbuilt, components in original unopened plastic. \$20 shipped. (This is the Manhattan-style model with enclosure made from pc board. Clear plastic cover.)

Reply offline, please.

72/73,

Ron - KD5S

--

***** Ron Evans *****

KD5S (ex K5MVR) - Loving the "glow" since 1957

Fort Worth, TX "Where the West Begins"

mailto:cosmos41@ix.netcom.com

<http://www.geocities.com/sweetvengeance>

"The meek shall inherit the Earth, but not
the mineral rights."

-- J. Paul Getty

Date: Tue, 14 Oct 2003 16:39:22 -0700

From: "Frank" <fkking@oregonvos.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [159359] BQ9P

Message-ID: <000801c392ac\$65c55fd0\$ef1ab1c6@D3C2ZN21>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Worked him 140CT03 2335Z on 14.025, 5 watts from Oregon. Not much of a pile up and working QRP.stations.

72

Frank

AA7XA

Date: Tue, 14 Oct 2003 21:02:30 -0400
From: "sslyon" <sslyon@megalink.net>
To: <kc8aon@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [159360] Re: 30 meter vertical ?
Message-ID: <001101c392b8\$0273ff20\$34c7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The c.f. vertical works just fine, Rick, esp. if you're near salt water! If you've got the vertical support for it -congratulations. I've flown all manner of full sized verticals from my kite lifters, from 10m to 160m. and the c.f. beats them every time. Even tho some theorists say there is no diff between c.f. and e.f., I've found that getting an efficient match is easier with the former and get I get better reports, too. (YMMV)

Lately I've been using the 88 EDZ vertically and it's even better than the dipole on 40, 30 and 20m. In all cases I use the Z-Match tuners.

73
seab
aa1my

Date: Tue, 14 Oct 2003 21:04:08 -0400
From: "Paul Gerhardt" <pgerhardt@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [159361] Have you had a prob with '817 pwr connector?
Message-ID: <BAY1-F246sKBEr8pkpL0000142d@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Has anyone here experienced a power connector problem on their '817? Mine works on internal batteries but not on the power cord. It seems the switch at the connector may not be working. Pse ping me off list if you have experience with this problem.

Paul K3PG

Paul Gerhard
pgerhardt@hotmail.com

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Date: Tue, 14 Oct 2003 20:19:4 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "Rick McKee" <kc8aon@juno.com>,
"qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [159362] RE: 30 meter vertical ?
Message-ID: <412003103151194678@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Rick:

I say go for a simply ground plane with 4 radials....and feed it with coax.
I have been using one of these simple-type verticals for years, taped to a
KANGA mast, and it has worked like gangbusters. It might work better with
balanced line through a tuner, of course, but I have had enormous success
with the coax. Just my \$.02 worth.

73,
--Doc/K0EVZ

> [Original Message]
> From: Rick McKee <kc8aon@juno.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: 10/14/2003 5:34:14 PM
> Subject: 30 meter vertical ?
>
> Been thinking of putting up some sort of vertical antenna for 10 thru 30
> meters, and was thinking of a 30 meter dipole fed in the center with 450
> ohm balanced feedline mounted vertically. Has anyone tried this and how
> well did it work out for you ? Just needing something to cover the
> higher bands and don't want to spend \$300 + for a commercial vertical !
> I may even try a 30 meter wire groundplane fed with balanced feedline -
> any advice ?
>
> 72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
> SW-20+, SW-30+, SW-40+, Norcal BLT, Norcal Cascade, Yaesu FT-7,

> Homebrew 6V6 tube TX & Hallicrafters SW500 RX, PAC-12 Antenna
> QRP-L #2112, FPqrp #33, AR QRP, AmQRP, Ohio Valley Fists
> I'll give up CW & QRP when I'm dead ! MAYBE ! dididadidah
>
>
> -----
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Date: Tue, 14 Oct 2003 20:25:7 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [159363] WTT for K2
Message-ID: <412003103151257448@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

Looking for a K2 rig, and have to trade an excellent OMNI V complete with all CW filters. The 250 Hz filter is by INRAD. Setup includes the 961 power supply with built-in speaker. Anyone interested, please let me know. Thanks.

73,
--Doc/K0EVZ

Date: Tue, 14 Oct 2003 18:31:26 -0700

From: Randy Foltz <rfoltz@turbonet.com>
To: post_qrp-l <qrp-l@lehigh.edu>
Subject: [159364] Fall QSO Party Suggestions
Message-ID: <3F8CA36E.7090409@turbonet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

If you are going to form a team for the QRP ARCI Fall QSO Party, I need to know about it before the contest begins Saturday Oct 18 1200 Z. A team consists of up to 5 members. You can be scattered across the country or you can be a multi-op, single transmitter. Team membership is a great vehicle for personal motivation.

Tonight's second suggestion is to give 15 m a look at the top of each daylight hour. In the CA QSO Party 2 weekends ago 15 m was open from a few hours after local sunrise to nearly sunset. I was hearing stations on the east coast and as far west as the Mississippi River. As always, 15 m is less crowded than 20 m, so give it a try.

Full contest details are at <http://personal.palouse.net/rfoltz/arci/fall.htm>

If you are not going to Pacificon, this is where you will find the other large gathering of QRPers this weekend.

73,
Randy, K7TQ
QRP ARCI Contest Chairman

Date: Tue, 14 Oct 2003 21:40:46 -0400
From: "John Harper" <john@ae5x.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [159365] 80m is hot tonight
Message-ID: <000501c392bd\$5b35c2b0\$6401a8c0@JOHN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just got C56JHF on 3505.5 (0135Z) with 10 watts. His receiver/ears are phenomenal. Go get him!

73,

John Harper AE5X

Outdoor QRP & 80-Meter DXing: <http://www.ae5x.com>

Date: Tue, 14 Oct 2003 18:42:24 -0700 (PDT)
From: <jhs001@heronetwork.com>
To: <qrp-1@Lehigh.EDU>
Subject: [159366] Help needed understanding the ANC-4
Message-ID: <2608.129.174.45.191.1066182144.squirrel@www.heronetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

http://www.timewave.com/Acrobat/ANC_4TW8x11a.pdf

The schematic is on the last page. Has anyone here worked with a similar circuit? I'll explain what little I do understand so you can build on this.

My questions:

1. What is the Q1 transistor for? Is Q1 an amplifier or just a buffer? At DC, I notice that it's fed by a supply voltage just under 12V (only 20 ohms and some inductance away from 12V). The CR1 and CR2 diodes, of course, are there to prevent overloading from unexpected large signals. Capacitors C3 and C2 couple the RF to ground. I assume that R3, R4, and R8 play a role in determining the gain. (I can't remember enough of FETs to show the exact relationship.) The RF output must be the voltage across T1 and is not connected to ground. The inductance provides RF impedance between Q1 and the power supply.
2. What does transformer T1 do? I notice that the not-quite-12V DC (I'll call it 11.8V DC) is connected to two of the T1 windings. So if the input of T1 is .01V RF, it extends from 11.79V DC to 11.80V DC. Then the output would extend from 11.80V DC to 11.81V DC. Until I get an answer from Timewave, any idea what the turns ratio and inductance values might be? Does it play a role in the noise phase adjuster?
3. How does the noise phase shifter work? How does noise phase shifter work? Adjusting the value of potentiometer R6 is supposed to change the frequency response. The phase shift should vary between about $-\pi/2$ and $+\pi/2$ depending on how the pot is adjusted, but I'm not getting anywhere in the simulations. The FREQ RANGE switch should control where the phase shift equals 0, but I can't make any sense of this, either. Unfortunately, information on the transformers is not provided. But even assuming 1:1, 10:1, and 1:10 turns ratios on FT50-43 toroids isn't helping. I must be thinking about the circuit in the wrong manner. The adjustment for the noise gain seems straightforward enough to me - the pot controls a simple voltage divider.

4. What is the Q2 transistor for? It's also fed by a supply voltage just under 12V (only 10 ohms and 2 inductors away from the 12V power supply). Capacitor C8 seems to be like capacitor C2 - coupling capacitor. I guess R9 and R10 play a role in setting the gain, like R8, R3, and R4 in Q1.
5. What does transformer T2 do? The strange thing is that the DC power supply is connected to the OUTPUT winding. I'm lost.
6. How does the noise gain work? Is the R12 pot a simple voltage divider, or does it tie in to Q3? I notice that C11 lies between R12 and Q3, so it has no DC connection to it. I also notice that part of this pot is in parallel to R37.
7. What does Q3 do? I don't remember my BJT transistor theory very well either. The collector is 2 inductors away from the 12V power supply and is thus connected at DC but isolated at RF. C12 is a coupling capacitor, so R16 plays a DC role. R13, R14, R15, and R16 determine the gain.
8. How exactly does T3 work? Again, there is a DC supply voltage on the output side.
9. What does Zener diode CR12 do? Do it, CR4, and CR3 play a role in dealing with unexpected large RF signals, or am I off base here?

I don't understand the T/R switch at the bottom left of the page, but I'll save that for another post.

Jason Hsu, AG4DG
usenet AAAAAATTTTTTTTTT jasonhsu.com

Date: Tue, 14 Oct 2003 22:25:29 -0400
From: "Mike Majority" <n4vbw@earthlink.net>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [159367] OT: Old cell phone conversions
Message-ID: <410-220031031522529171@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Anyone have any words on converting old analog cell phones (the old "bag phones") up to the 902 band? Picked up two working models this past weekend at the Thrift Shop for \$5 each and had seen somewhere an article for conversion from the 800 band (topping at 894 MHz, according to the manual). Just can't find my old references or even on google. Manual says 3w out, so guess it is technically QRP.

Please reply off list, es thx in advance,
Mike, N4VBV in South Carolina

--- Mike Majority
--- n4vbv@earthlink.net
--- EarthLink: The #1 provider of the Real Internet.

Date: Tue, 14 Oct 2003 22:39:28 -0400
From: <bill@n4qa.com>
To: <qrp-1@Lehigh.EDU>
Subject: [159368] KX1 questions/observations
Message-ID: <000701c392c5\$8fb62f40\$5426ad80@f1n5n8>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've spent some time this evening poring over the schematic of the new Elecraft KX1 in an effort to learn about the nifty little gadget's design. There are many very interesting aspects of this rig, but my one-track mind can handle only one at a time. So, here goes.

KX1 question 1:

In the schematic, the signal names for the 3-digit display's segments(A,B,C,D,E,F,G and DP) coming from the PIC don't seem to match those of the display segments themselves.

Why am I cornfused?

73.

Bill, N4QA

<http://www.n4qa.com>

Date: Tue, 14 Oct 2003 22:45:51 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: buydens@duke.usask.ca
Cc: qrp-1@lehigh.edu
Subject: [159369] Re: Making your own resistor web site
Message-ID: <3.0.6.32.20031014224551.007edba0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>

>In particular I was wondering how one would do the colour code for

>1 ohm. Would the first band be black?
>
Brown Black Gold (gold is X0.1 mulitplier)

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Tue, 14 Oct 2003 21:57:50 -0500
From: "Jeff Imel" <jeffimel@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [159370] Re: 30 meter vertical ?
Message-ID: <BAY9-DAV3vPOJD0xIk0000002968@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rick,

I use a vertical 40 foot long wire dipole hung vertically from a 60 foot tree in my back yard. I fed it with 300 ohm ltwinlead unto a tuner. I choose the vertical dipole because of WWV. I mean, the government could buy any antenna they wanted for WWV and WWVH and what antenna did they decide on? A vertical dipole! They must have believed that a vertical dipole provided the best overall coverage for their stations. Maybe there was another reason, like it was the lowest bid -- who knows. Anyway, I have had great success with my vertical dipole working both coasts and South America on 30 and 40 meters running 100 mW CW.

Anyway, take a look at the WWVH vertical dipole for 15 Mhz here:
<http://www.boulder.nist.gov/timefreq/images/radiostations/wwvh-large/wwvh5.jpg>

Let us know what you decide to do. Fun project!

Jeff
KB9ZUR

----- Original Message -----
From: "Rick McKee" <kc8aon@juno.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, October 14, 2003 5:34 PM
Subject: 30 meter vertical ?

> Been thinking of putting up some sort of vertical antenna for 10 thru 30
> meters, and was thinking of a 30 meter dipole fed in the center with 450
> ohm balanced feedline mounted vertically. Has anyone tried this and how
> well did it work out for you ? Just needing something to cover the
> higher bands and don't want to spend \$300 + for a commercial vertical !
> I may even try a 30 meter wire groundplane fed with balanced feedline -
> any advice ?

>
> 72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
> SW-20+, SW-30+, SW-40+, Norcal BLT, Norcal Cascade, Yaesu FT-7,
> Homebrew 6V6 tube TX & Hallicrafters SW500 RX, PAC-12 Antenna
> QRP-L #2112, FPqrp #33, AR QRP, AmQRP, Ohio Valley Fists
> I'll give up CW & QRP when I'm dead ! MAYBE ! didididadidah

>
>
> -----
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>

Date: Tue, 14 Oct 2003 20:11:59 -0700
From: "Dennis W. Farrell" <dennisw.farrell@verizon.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [159371] Re: OT: Old cell phone conversions
Message-ID: <5.2.1.1.0.20031014200904.02ab78c0@incoming.verizon.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I'd appreciate knowing this, too

Thanks -- dwf

At 10/14/2003 19:25, Mike Majority wrote:

>Anyone have any words on converting old analog cell phones (the old "bag
>phones") up to the 902 band? Picked up two working models this past weekend
>at the Thrift Shop for \$5 each and had seen somewhere an article for
>conversion from the 800 band (topping at 894 MHz, according to the manual).
>Just can't find my old references or even on google. Manual says 3w out, so
>guess it is technically QRP.

>
> Please reply off list, es thx in advance,
>Mike, N4VBV in South Carolina
>
>
>--- Mike Majority
>--- n4vbw@earthlink.net
>--- EarthLink: The #1 provider of the Real Internet.

Date: Wed, 15 Oct 2003 00:08:54 -0400
From: Ed Tanton <n4xy@earthlink.net>
To: qrp-L Reflector <qrp-l@lehigh.edu>
Subject: [159372] More on "Magic Eraser"
Message-ID: <6.0.0.22.2.20031015000706.02c24970@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

A further test in the light of day: I am most pleased of all with the Magic Eraser's performance on my very old Fluke 8020-A (handheld) DVM. This unit was purchased new in the early 80s, and is 100% plastic. I got brave and used it on all parts of it including the clear dial. Worked perfectly. It actually did a better job here, than on the old B&W Signal Generator. No scratches, and no solvent harm.

Then, because Bruce Muscolino thought of one more thing: conductive residues, I tried the following non-rigorous test: I wiped a 6 inch x 6 inch section of formica countertop with the damp pad. My Fluke has a 20M ohm "Conductance" scale, and before wiping I tried the countertop. Nada. Didn't think there would be anything, but you have to establish a sort of baseline.

After wiping with a damp pad, I put my sharp, bevelled, probe tips on their sides for maximum contact, and was able to measure ~ 400k to 800k ohms. It varied, and was not a solid, always-there kind of measurement. (With just the sharp-tips there was no reading at all.) Distance between the tips was reduced from 6 inches to 0.1 inch. A better contact seemed to occur as the tips got closer, but it remained tenuous. I then 'dried' the area with a paper towel. The resistance went up to a very flaky 4M ohms and up. After 15 minutes, even that was gone.

There is no way to assess long-term effects of whatever is in the pad without having a "long-term" go by. A new, dry pad has no conductance I could measure.

I would say the Magic Eraser is great for just about anything we come in contact with, keeping in mind that it IS water-based, and some small amount of water may get into crevices, etc. if you are not careful to keep it to a minimum during use.

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".

--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."

--Mark Twain

Date: Wed, 15 Oct 2003 00:10:31 -0400
From: "Dennis Ponsness" <wb0wao@hotmail.com>
To: kb2fel@yahoo.com, qrp-l@Lehigh.EDU
Subject: [159373] Re: QRL Potential Problem.
Message-ID: <Law11-F109rdusluCBc00013091@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I too share your concern with QRM from digimodes. IMHO, the main problem is that normally, the digimode station is not "listening" but "watching" the frequency. This was a concern when we got 60m as I understand it (the main

reason we are restricted to SSB) and it will probably become more of a problem as more and more ops get on HF.

I think this might be resolved by creating an updated "band plan". To my knowledge, the current band plan has been around for quite some time - I think at the time it came out there was RTTY and 300 baud packet! There are quite a few "new" digimodes and it seems every few months another one is "invented". If you figure that a General class licensee can operate from 14.025 - 14.150 and that the normal "top end" of CW is around 14.060 - that gives about 35 kHz of "effective" CW operating space, the other 90 kHz is in the digimode area. That should be more than enough for digital operating IMHO. The ARRL should sit down and come up with a reasonable band plan for where in that 90 kHz each mode should "reside". If an op wanted to work MFSK-16, there should be a recognized "watering hole" for them to monitor/call CQ - just as we do on 14.060! I don't think that they should be officially regulated by inclusion in Part 97, the band plan(s) need to be flexible to change with the introduction of new modes and/or the decline in popularity of other modes (is anyone still using 300 baud packet on HF anymore?). Perhaps a standing committee that would periodically review and adjust the band plan would be in order? Tradition is fine, but the band plan that is out there currently is not very useful - it shows 14.070 - 14.095 as RTTY and with the exception of 14.0995 - 14.1005 for the beacons, the rest is shown as packet! It need updating badly IMHO.

72 es oo

Dennis - WB0WAO

EN84ij Iosco County, Michigan
MultiPig+ #3 - K2 #3555
DSW-II-20 - SW-40+ - SW-30+
RM-20 - RM-40

NJQRP #329 - FPQRP #-347 - SOC #499
GACW #622 - ARS #1363 - QRP Canada #248
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www.qsl.net/wb0wao
:=)

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Date: Tue, 14 Oct 2003 21:22:33 -0700
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>

To: Elecraft List <elecraft@mailman.qth.net>, QRP-L <qrp-l@lehigh.edu>, gqrp@elecraft.com
Subject: [159374] New Elecraft Mini-Module Kits (N-gen, BL1, DL1)
Message-ID: <3F8CCB89.4090401@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

We're pleased to announce our new line of easy-to-build, high-performance mini-module kits. They're inexpensive, ideal for first-time builders, and will serve many useful functions in your shack and at your electronics workbench. They can be built in a single evening, and include complete, illustrated assembly manuals.

The first three mini-modules include a wideband Noise Generator (N-gen), 20-watt dummy load (DL1), and 150-watt balun (BL1). All three are small, PC-board-only modules that can be used as is--with the supplied rubber feet--or installed in an enclosure of your choice.

Each module includes a PC board-mount BNC connector to facilitate connection to station equipment. The dummy load and balun are only about 1.5 x 3"--ideal for portable or home use. (They'll even fit side-by-side directly on the KAT2 antenna tuner's dual antenna jacks.) The N-gen, DL1 and BL1 are further described below.

N-gen (\$39): The N-gen is a calibrated noise source that's great for receiver alignment and testing. Its 50-ohm, frequency-compensated output is flat to within +/- 3 dB over the range of 100 kHz to 500 MHz. Includes a power switch, power-indicator LED, on-board 9-volt battery, and a jack for use with any 9-14 V power source.

DL1 Dummy Load (\$25): The dummy load can handle a full 20 watts (continuous). Its SWR is less than 1.1:1 through 30 MHz, 1.2:1 at 144 MHz, and 1.3:1 at 225 MHz. It includes an integral RF detector for use with a voltmeter, allowing you to accurately calculate transmit power.

BL1 Balun (\$29): Despite its small size, our highly-efficient, 1:4 balun can handle up to 150 watts, making it an excellent choice for both home and field use. Its rated SWR is less than 1.2:1 from 500 kHz to 55 MHz when terminated in a 200-ohm load. It includes rugged screw terminals for the balanced output as well as ground, and can be used in a variety of matching applications.

BNC-MM (\$5): This double-male BNC adapter can be used to connect our mini-modules directly to transceivers or other equipment, providing minimum-loss, high-reliability connections. It's especially useful with the BL1 balun.

Additional mini-module kits will be announced in coming months. We'll have a

number of them with us at Pacificon this weekend.

For details, pictures and manuals, see:

http://www.elecrafter.com/mini_module_kits/mini_modules.htm

73,

Wayne N6KR

Eric WA6HHQ

<http://www.elecrafter.com>

Date: Wed, 15 Oct 2003 01:23:10 -0400

From: Ed Tanton <n4xy@earthlink.net>

To: qrp-L Reflector <qrp-l@lehigh.edu>, noga <nogaqrp@mailman.qth.net>

Subject: [159375] Fwd: Spotting China's Shenzhou V spacecraft

Message-ID: <6.0.0.22.2.20031015012207.04262230@pop.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

>Date: Tue, 14 Oct 2003 23:21:45 -0500

>Subject: Spotting China's Shenzhou V spacecraft

>From: "SpaceWeather.com" <swlist@spaceweather.com>

>

>

>Space Weather News for Oct. 15th.

><http://spaceweather.com>

>

>China's manned Shenzhou V spacecraft is orbiting Earth after a successful

>launch at approximately 100 UT on Oct. 15th. Sky watchers in parts of the

>United States--e.g., Boston, New York, Washington DC, Philadelphia, San

>Francisco and possibly Los Angeles--may be able to see the craft gliding

>across the sky just before local dawn on Wednesday morning, Oct 15th.

>Visit spaceweather.com for details and updates.

>

>Note: this email will arrive too late for most subscribers to act, but

>we're sending it anyway, hoping that some people at least will be able to

>see the spacecraft.

>

>---

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY

189 Pioneer Trail

Marietta, GA 30068-3466

website: <http://www.n4xy.com>

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LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".
--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."
--Mark Twain

Date: Wed, 15 Oct 2003 08:16:49 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: kd1jv@moose.ncia.net, qrp-1@Lehigh.EDU
Subject: [159376] Re: Making your own resistor web site
Message-ID: <Law15-F4LmUjS5C7lAh000002028@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Steven Weber <kd1jv@moose.ncia.net>
>Reply-To: kd1jv@moose.ncia.net
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Re: Making your own resistor web site
>Date: Tue, 14 Oct 2003 22:45:51 -0400
>
> >
> >In particular I was wondering how one would do the colour code for
> >1 ohm. Would the first band be black?
> >
>Brown Black Gold (gold is X0.1 mulitplier)

I use 1% 5 band resistors: Brown Black Black Silver Brown

^^^ ^^^

x.01 1%

I've used 1% metal film resistors for years, the additional cost is minimal and they have better characteristics than carbon film: more stable, less noise and better at high frequencies.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947

Email: aqzf13 at dsl dot pipex dot com

WWW: http://www.geocities.com/leon_heller

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Date: Wed, 15 Oct 2003 08:25:14 +0000

From: "Leon Heller" <leon_heller@hotmail.com>

To: jeffimel@hotmail.com, qrp-1@Lehigh.EDU

Subject: [159377] Re: 30 meter vertical ?

Message-ID: <Law15-F48RuYnZ1mDVR000023f4@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

>From: "Jeff Imel" <jeffimel@hotmail.com>

>Reply-To: jeffimel@hotmail.com

>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

>Subject: Re: 30 meter vertical ?

>Date: Tue, 14 Oct 2003 21:57:50 -0500

>

>Rick,

>

>I use a vertical 40 foot long wire dipole hung vertically from a 60 foot

>tree in my back yard. I fed it with 300 ohm ltwinlead unto a tuner.

[deleted]

Isn't a dipole feed impedance *much* less than 300 ohms? A folded dipole is about 300 ohms, though.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 423947
Email: aqzf13 at dsl dot pipex dot com
WWW: http://www.geocities.com/leon_heller

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Date: Wed, 15 Oct 2003 07:25:05 -0400
From: "Royce Simmons" <w2rhn@frontiernet.net>
To: <qrp-l@Lehigh.EDU>
Subject: [159378] Off Topic
Message-ID: <000e01c3930e\$fbe4b1c0\$0d02a8c0@Belkin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All,

I hope that someone can send me a copy of Acrobat 4.0 reader. I have tried to get one from the Acrobat web site without any success. Even better would be a pointer to a site that I can access and download it myself.

Thanks,

Royce Simmons

Date: Wed, 15 Oct 2003 06:26:48 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@Lehigh.EDU>
Subject: [159379] Re: 80m is hot tonight
Message-ID: <000301c3930f\$39daa9d0\$0100a8c0@MAIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Congrats John!

Yes, 80m was nice and quite here too but with strong signals. I've been working most of my DX lately on 40m but the high A-index last night I didn't expect much. 3B8CF was coming in strong however at about 0230 UTC on 7005 kHz. He couldn't hear me at 5 watts but I've worked him on several other bands already. Still, not a bad signal from the other side of the planet on 40m!

73,
Steve Yates - AA5TB

Date: Wed, 15 Oct 2003 07:32:30 +0000
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [159380] Re: QRL Potential Problem
Message-ID: <20031015.073352.-314505.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I too share the concern with QRM es QRL to/from anystation during anymode.

Not because CW is my primary mode any longer (OOTC here and did CW more than 30 years) but because it is just too easy to QSY a 'few Hz' and not QRM any station with any mode.

MY problem is . . . not wanting to propagate this kind of thinking . . .

" that *normally*, the digimode station is not "listening" but "watching" the frequency" . . .

AND promote this kind of thinking . . .

****NORMALLY**** . . . The receiver bandwidth is not an issue in most new digital modes since computer software and the click of a mouse solves the 'selectivity' / 'tuning' problem. The RX BW is set to SSB WIDE, as such the waterfall display can 'watch' many more anymode QSOs than an operator can 'listen' to. A click of the mouse over a 'clear cancel' on the waterfall display SETs the TX FREQ. ps this is MY operating procedure.

****NORMALLY**** (again my first hand experience) . . . Digimode PRINT does not improve with reduced receiver bandwidth since . . . since computer software and the click of a mouse "and now you know the rest of story" :>))

True . . . RTTY . . . (and I run this mode too) has it's own 'set of conditions' where a band plan will not solve anything until global thinking is agreed upon.

. . . If . . . there is no operator in the shack during some of the 'old auto' digimodes
. . . THEN . . . 'that' operator should be chastised.

Thank you VERY much ! ! !
John
N3AAZ
O0TC
FM 19 xa

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Date: Wed, 15 Oct 2003 06:37:29 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@Lehigh.EDU>
Subject: [159381] AMTA 2003 - Irvine, CA
Message-ID: <000701c39310\$b7876750\$0100a8c0@MAIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This isn't directly ham related but it kind of is...

I will be attending the AMTA (Antenna Measurements Techniques Association) Symposium in Irvine, California next week and I know that there are usually several hams in attendance. I was curious if anyone from the list will be attending or if there are any QRP related activities going on near Irvine or Orange county next week?

For those that may be curious as to what AMTA is check the following:

<http://www.amta.org>

<http://www.amta2003.com/>

73,
Steve Yates - AA5TB

Date: Wed, 15 Oct 2003 06:47:53 -0500
From: "Tony Martin W4FOA" <w4foa@comcast.net>
To: <kb2fel@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [159382] Re: QRL Potential Problem.
Message-ID: <005401c39312\$2b122650\$6401a8c0@De1ldude>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob,
Over the past few years I have been noticing a gradual influx of digital signals into what has been generally acknowledged as the CW portion of the bands. This is especially obvious on 40 and 20 meters where frequently a digital signal will just "pop up", out of nowhere, often obliterating the CW signal. With the dramatic increase in digital modes and activity, I can only see this problem getting worse.

I agree, we must all get along so cooperation is not only advisable, but essential. While a "band plan" may not be the final answer, it would provide at least a base guideline for the newcomers and hopefully the old timers.

Hellooooo...anybody at ARRL listening?

My 2cents.
Tony, W4FOA

----- Original Message -----
From: "Bob KB2FEL" <kb2fel@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, October 14, 2003 4:29 PM
Subject: QRL Potential Problem.

> Hi All,
>

> We are all aware of the proceedings with the no code
> issues and HF operating. This is not about that
> issue. What it is about is a potential problem with
> QRM and QRN between modes using the same spectrum.
> This problem came to mind during the 40 meter digital
> contest. The CW-ops were basically shut down and had
> to find QSO room on another part of the band. That is
> not a problem for one or two days out of the year and
> we can all share the spectrum.
>
> Today I was listening to WD4RPS in QSO with another
> station on 14.062. In the middle of their first
> exchange a station started to send what sounded like
> BPSK over them. Had I been in QSO with WD4RPS I would
> have lost anything he sent and the QSO would have had
> to end. Had the BPSK op first listened to the band in
> CW and sent a QRL. I could have sent C. But that did
> not happen.
>
> My question is. How can we as amateurs using
> different modes within the same allocation, stay
> courteous to each other and play nice in the, sand box
> we call spectrum?
>
> I think the old plan had Digital above 14.065. I see
> no such distinction on the ARRL band plan any longer.
>
>
> Bob
> KB2FEL/8
>
>
>
>
>
> -----
> Do you Yahoo!?
> The New Yahoo! Shopping - with improved product search
> <http://shopping.yahoo.com>

Date: Wed, 15 Oct 2003 06:05:02 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "qrp-1" <qrp-1@Lehigh.EDU>, "cqc-1" <CQCLIST@yahoogroups.com>,
<elecraft@mailman.qth.net>
Subject: [159383] F/S Palm m125

Message-ID: <00a801c39314\$90dac030\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Details & Pictures at:

<https://www.frii.com/~rwc/fs/m125/>

Ideal palmtop for field logging for use with NJQRP's "Serial Sender" and "GoLog".

73, Rod NØRC

Date: Wed, 15 Oct 2003 07:48:36 -0500
From: Ron Evans <cosmos41@ix.netcom.com>
To: qrp-l@Lehigh.EDU
Subject: [159384] Antenna Tuner Question
Message-ID: <3F8D4224.7060103@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Ok, ok...I'm an old fogey but I don't like "built-in" antenna tuners and won't use them. With that preface (PLEASE don't try to convert me!), what suggestions would you have for a small already-assembled antenna tuner (both unbalanced and balanced capability)?

I'm aware of a couple in kit form but a recently acquired (wheee!) medical condition makes building kits a thing of my past, so I really need a 'street ready' tuner for my just-purchased K-1 (less KAT1) that was already assembled.

Very small and lightweight would be nice since I do 'intend' to try operating from sites accessible only by hiking.

Your help and advice would be most welcome and very much appreciated.

72,

Ron - KD5S

--

***** Ron Evans *****

KD5S (ex K5MVR) - Loving the "glow" since 1957
Fort Worth, TX "Where the West Begins"
mailto:cosmos41@ix.netcom.com
<http://www.geocities.com/sweetvengeance>
" The meek shall inherit the Earth, but not
the mineral rights."

-- J. Paul Getty

Date: Wed, 15 Oct 2003 08:00:24 -0500

From: Ron Evans <cosmos41@ix.netcom.com>

To: qrp-1@Lehigh.EDU

Subject: [159385] External Ground Connection on K-1

Message-ID: <3F8D44E8.10000@ix.netcom.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

Hmmmmmm. My day for dopey questions, I guess. But where does one connect a ground wire to the Elecraft K-1? I'll be using the K-1 both in the shack as well as in the field and am accustomed to having a ground wire going to earth ground. Can someone steer me into the Halls of Wisdom, please?

Thanks in advance!

72,

Ron - KD5S

--

***** Ron Evans *****

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" The meek shall inherit the Earth, but not
the mineral rights."

-- J. Paul Getty

Date: Wed, 15 Oct 2003 09:25:59 -0400
From: "John Sielke" <jsielke@pobox.com>
To: qrp-l@lehigh.edu
Subject: [159386] Re: QRL Potential Problem.
Message-ID: <3F8D12A7.15467.12187896@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

The ARRL "Band Plan" has 7040 as the DX RTTY Frequency. It has "RTTY" from 14,070, and Packet" from 14090-14112, with a window for the DX beacons. Interesting, since HF Packet has pretty well died out, but it takes the ARRL a while to catch up. They don't mention other digital modes.
<http://www2.arrl.org/FandES/field/regulations/bandplan.html>

The RAC Canadian band plan sets aside 7035-7050 for digital modes. Their 20M band plan looks much like the ARRLs, except SSB from 14100 up.
<http://www.rac.ca/hfband.htm>

The IARU band plan is even less kind to CW, see
<http://www.sral.fi/bandplan.html>

These were all made BEFORE CW was dropped as a requirement by the IARU, so I would expect to see CW bands chopped even more.

John W2AGN

Date: Wed, 15 Oct 2003 09:28:48 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <cosmos41@ix.netcom.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [159387] Re: Antenna Tuner Question
Message-ID: <001d01c39320\$5aaf99c0\$0200a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Ok, ok...I'm an old fogey but I don't like "built-in" antenna tuners and

> won't use them. With that preface (PLEASE don't try to convert me!),
> what suggestions would you have for a small already-assembled antenna
> tuner (both unbalanced and balanced capability)?
>
> Ron - KD5S

I would still seriously consider the ATU for the K1. I have the ATU in my K2, and I could NEVER go back to and external tuner. While there can be functional differences that give specific advantages to internal vs external in both directions, overall, the convenience of the internal tuner is hard to beat. I got pretty sick and tired of two jumpers, the SWR meter, and the MFJ tuner to be 'packed around' with the K2 when I did something.

I suppose if you were always at the same spot... But with the ATU in my K2, it's a grab and go. If I go on a scout trip, I can grab a roll of wire and just clip it to a short cable and throw it (or have the scouts rig it) in a tree and I'm on the air in MINUTES. Heck, with a small 'reel' setup, I can even take down my antenna, making it easy and quick enough to operate at a 'rest stop' if I wanted to.

If you're worried about building the thing, I'm sure there's lots of people around here that would be glad to help you out!

Mike

> ***** Ron Evans *****
> KD5S (ex K5MVR) - Loving the "glow" since 1957
> Fort Worth, TX "Where the West Begins"

Is that because Dallas is where the east peters out?

Sorry, couldn't resist. Used to live in Ft Worth years ago. I guess it shows... (ex KA5MJQ)

Date: Wed, 15 Oct 2003 08:42:30 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [159388] RE: QRP Oldies: the HW-7,8 and 9?
Message-ID: <3CD5FC1B2837DC46BC77FDDF187C26E3149D5B@tx-msg07-ccc.wireless.attws.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;

charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

I use a HW-9 (WARC bands) and love it!!

Lee N4MVL

-----Original Message-----

From: ARDUJENSKI@aol.com [mailto:ARDUJENSKI@aol.com]
Sent: Tuesday, October 14, 2003 5:45 PM
To: Low Power Amateur Radio Discussion
Subject: QRP Oldies: the HW-7,8 and 9?

Except for the occasional HW-8 reference I rarely see the HW-7 or HW-9
used=20
in any of the sprints. Just curious if any are still using these
ORIGINALS or=20
QRP?

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
--- --- --- --- DIT DIT

Date: Wed, 15 Oct 2003 08:45:43 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Doug Hendricks" <ki6ds@dpol.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [159389] RE: Wanted: QRP Watt Meter
Message-ID: <3CD5FC1B2837DC46BC77FDDF187C26E3149D5C@tx-msg07-
ccc.wireless.attws.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I have successfully installed a NogaWatt into a Whitman's Sampler tin =
(the small one - holds 4 candies)!!

72 de N4MVL Lee

-----Original Message-----

From: Doug Hendricks [mailto:ki6ds@dpol.net]
Sent: Tuesday, October 14, 2003 12:40 PM
To: Low Power Amateur Radio Discussion

Subject: Re: Wanted: QRP Watt Meter

I agree with Joe, the NoGa Watt meter is an excellent kit and value for =
the
dollar. You will have to package it in your own enclosure, but that is =
the
fun of homebrewing. 72, Doug

Date: Wed, 15 Oct 2003 08:58:42 -0500
From: "Tim, N9PUZ" <n9puz@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [159390] QRP Tube Kits
Message-ID: <2003101585842.348176@EOS>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Does anyone kit a tube QRP transceiver kit for 40 Meters or a tube receiver=
that would be a suitable mate to the Glowbug 40?

Tim, N9PUZ

Date: Wed, 15 Oct 2003 09:03:07 -0500
From: "sjolin" <sjolin@swbell.net>
To: <jsielke@pobox.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [159391] Re: QRL Potential Problem.
Message-ID: <020501c39325\$10b47200\$78d1fea9@DaveSjolin>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think the reason that ARRL isnt in much of a rush to fix the band plan
above 14.1 is that with the exception of the US, it is used primarily for
SSB. That plus telling the users of specialty modes that they have to go up
into no mans land is not likely to be readily accepted. Operators like to
operate where there is activity for that mode and activity is split between
so many different modes.

As far as band plan is concerned there are a number of BBS and beacons etc

that are outside the US and pretty much operate where they originally set up years ago, band plan or no band plan. Its not unknow for one of them to come up right on top of a major dxpedition if the Dx isnt careful about where they call cq.

While I hate to say it our problem may be we have TOO MANY different digital modes and many are not compatible. Activity tends to create its own band plan. So when there is a contest or a dxpedition on, RTTY tends to take up a lot of space. On some nights during the week, its hard to find any one using old fashioned baudot. Creating a fixed band plan based on weekday activity or weekend activity is going to tick off one group or the other (ie.contesters/dxers vs. ragchewers)

Im not optimistic that an accomodation will be reached any time soon.

73 de Dave, N0IT

----- Original Message -----

From: "John Sielke" <jsielke@pobox.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, October 15, 2003 8:25 AM

Subject: Re: QRL Potential Problem.

> The ARRL "Band Plan" has 7040 as the DX RTTY Frequency. It has "RTTY" from
> 14,070, and Packet" from 14090-14112, with a window for the DX beacons.
> Interesting, since HF Packet has pretty well died out, but it takes the
ARRL
> a while to catch up. They don't mention other digital modes.
> <http://www2.arrl.org/FandES/field/regulations/bandplan.html>
>
> The RAC Canadian band plan sets aside 7035-7050 for digital modes. Their
20M
> band plan looks much lik ethe ARRLs, except SSB from 14100 up.
> <http://www.rac.ca/hfband.htm>
>
> The IARU band plan is even less kind to CW, see
> <http://www.sral.fi/bandplan.html>
>
> These were all made BEFORE CW was dropped as a requirement by the IARU, so
I
> would expect to see CW bands chopped even more.
>
> John W2AGN
>
>

Date: Wed, 15 Oct 2003 10:04:26 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [159392] KEY comment
Message-ID: <10e.27455cba.2cbeadea@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

For the past few months I have been including which KEY I am using during the equipment exchange. I find it sparks some good rag chews. I know a couple of times I have complimented folks on their FIST only to find out they had a great KEYBOARD or good-fingers (smile). I am probably in the minority in using the old pumper (straight key) but never fail to be impressed to find some J-38 operator with a smooth fist. OK, OK during cold weather ops I sound like I have a stutter (grin). I do appreciate those not mentioning that I sound like I have a fist-impedament.

Alan KB7MBI in Woodinville, WA
PS I have picked up a G4ZPY and a Kent straight key. Boy are these nice to use. Really into *heavy metal* (smile)

Date: Wed, 15 Oct 2003 10:18:02 -0400
From: "Joseph Trombino Jr" <w2kj@bellsouth.net>
To: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [159393] F.S. DSWII-20
Message-ID: <005301c39327\$24fbdf80\$220110ac@gateway.2wire.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy Gang:

Time to build something else so I have for sale a just-built, like new, full output DSWII-20.

This is a really neat little rig, is perfect electronically and physically and works like a charm. Comes with manual.

Will ship in in CONUS for \$160.

73, Joe W2KJ

North Carolina
I QRP, therefore I

am

Date: Wed, 15 Oct 2003 10:24:00 -0400
From: "sslyon" <sslyon@megalink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [159394] Vertical: feed w/Twinlead
Message-ID: <000701c39327\$fb0dd060\$34c7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Since it's a "non-resonant antenna" used for multiple bands and the feedpoint Z will be all over the place, Twinlead is a pretty good choice. Better would be a more open 450 ohm Ladderline or Home Brew 600 ohm parallel line, but twinlead will do the job ok for shorter runs.

73
aa1my

----- Original Message -----

From: "Leon Heller" <leon_heller@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, October 15, 2003 4:25 AM
Subject: Re: 30 meter vertical ?

> >

> >I use a vertical 40 foot long wire dipole hung vertically from a 60 foot

> >tree in my back yard. I fed it with 300 ohm ltwinlead unto a tuner.

----->

> [deleted]

>

> Isn't a dipole feed impedance *much* less than 300 ohms? A folded dipole is

> about 300 ohms, though.

>

> 73, Leon

> --

> Leon Heller, G1HSM Tel: +44 1424 423947

> Email: aqzf13 at dsl dot pipex dot com

> WWW: http://www.geocities.com/leon_heller

>
>

-
> Tired of 56k? Get a FREE BT Broadband connection
> <http://www.msn.co.uk/specials/btbroadband>
>

Date: Wed, 15 Oct 2003 08:21:59 -0600
From: "Stephen Finch" <stevef88@msn.com>
To: <n1zsw@hotmail.com>,
 "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [159395] RE: NEQRP SSB NET TONITE 07:30PM EDST 7.288Mhz +- 5Khz
Message-ID: <000b01c39327\$b27f4a40\$010aa8c0@Domain>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

Tried from Denver, but no one heard. Maybe next week. (Inverted-vee
somewhat pointed NE)

Steve
AI=D8W

-----Original Message-----
From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf =
Of
Ron Pfeiffer
Sent: Tuesday, October 14, 2003 9:30 AM
To: Low Power Amateur Radio Discussion
Subject: NEQRP SSB NET TONITE 07:30PM EDST 7.288Mhz +- 5Khz

Tuesday: 07:30 PM EDST
7.288 Mhz plus/minus 5 Khz

Last weeks Check ins:

WA10HR	Ev	CT			
AJ1J	Joe	MA	IC706	longwire	
W1AMF	Bob	CT	FT1000	Vertical	
AB8DF	Ed	MI	Triton	Dipole	
WB1HBE	John	MA	went from 5 (noise)	- 10watts (59 readable)	

K1RC John MA Zepp
WA8BXN Mike OH K2 G5RV
N1VS Vince CT
K8EJU Larry OH PC-500
WB3GCK Craig PA
K3MAN George PA TS2000
VE3KQN Jim Canada

Come out with your microphone and say hello!

Have fun, Ron

Compare Cable, DSL or Satellite plans: As low as \$29.95. =20
<https://broadband.msn.com>

Date: Wed, 15 Oct 2003 10:24:54 -0400
From: "Armin Hachmer" <armin@muskoka.com>
To: <ARDUJENSKI@aol.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [159396] Re: KEY comment
Message-ID: <003b01c39328\$3b4a3600\$906c7bd8@muskoka.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Right on Alan.

I like a run on a straight key now and then. You know, i heard a bug the other day (did not work him) but he had such a rythm, it was 'music' really.

Think maybe i will get a bug too. Not the flu bug tho...

Armin
VE3TEQ

ssage -----
From: <ARDUJENSKI@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, October 15, 2003 10:04 AM
Subject: KEY comment

> For the past few months I have been including which KEY I am using during the
> equipment exchange. I find it sparks some good rag chews. I know a couple of
> times I have complimented folks on their FIST only to find out they had a
> great KEYBOARD or good-fingers (smile). I am probably in the minority in using the
> old pumper (straight key) but never fail to be impressed to find some J-38
> operator with a smooth fist. OK, OK during cold weather ops I sound like I have
> a stutter (grin). I do appreciate those not mentioning that I sound like I
> have a fist-impedament.
>
> Alan KB7MBI in Woodinville, WA
> PS I have picked up a G4ZPY and a Kent straight key. Boy are these nice to
> use. Really into *heavy metal* (smile)

Date: Wed, 15 Oct 2003 10:26:57 -0400
From: John Zaruba Jr <aa2bn@comcast.net>
To: n9puz@arrl.net
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [159397] Re: QRP Tube Kits
Message-ID: <A21D4052-FF1B-11D7-AE24-00039367EFA0@comcast.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed
Mime-Version: 1.0 (Apple Message framework v552)
Content-Transfer-Encoding: 7bit

Tim,

The November QST has a great glowbug superhet receiver designed by Ron AC7AC.

73,

John

Date: Wed, 15 Oct 2003 09:50:44 -0500
From: "Lew Paceley" <lew@paceley.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <cosmos41@ix.netcom.com>, "Lew Paceley" <lew@paceley.com>
Subject: [159398] Re: Antenna Tuner Question

Message-ID: <003d01c3932b\$b6fcbf40\$6501a8c0@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi Ron,
I've listed a few choices in small portable tuners. I don't own any of them, though I have a homebrew Z-match tuner "kinda like" the ZM-2 below:

Emtech ZM-2 pre-built. A small lightweight Z-match with built-in SWR indicator. Matches both balanced and unbalanced antennas.
<http://emtech.steadynet.com/zm2.shtml>

LDG Z-11 autotuner. Must be battery powered when operating portable. Built-in SWR indicator. A balun is needed for use with balanced lines. Press one button and it tunes automagically, making band changes quick and painless.
<http://www.ldgelectronics.com/z-11.html>

MFJ Enterprises travel tuner MFJ-902. No built-in SWR indicator. Needs external balun for balanced lines.
<http://www.mfjenterprises.com/products.php?prodid=MFJ-902>

The K1's built-in autotuning ATU has a limited matching range compared to many external units. It also requires a balun for balanced antennas. If you can choose your antenna(s) to fit the K1 ATUs range, it is about the lightest, smallest, and fastest solution you will find. If weight and space are not major factors an external matcher can provide more flexibility. Not trying to convert you, but I want you to have the facts :-)

Good luck!

72/73,
Lew
N5ZE

Date: Wed, 15 Oct 2003 10:10:00 -0500
From: "George, W5YR" <w5yr@att.net>
To: <cosmos41@ix.netcom.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [159399] Re: External Ground Connection on K-1

Message-ID: <003501c3932e\$c013d610\$0401a8c0@PS>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Ron, the simple answer is that there is really no need to ground the K1. It is a non-problem. <:}

In over 57 years of operating amateur radio in many station setups, I have never used an external "r-f ground." On the whole, they tend to create more problems than they solve.

I would be glad to discuss this further privately if you have a real concern over the need for a ground.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"Starting the 58th year and it just keeps getting better!"

w5yr@att.net

----- Original Message -----

From: "Ron Evans" <cosmos41@ix.netcom.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Wednesday, October 15, 2003 8:00 AM

Subject: External Ground Connection on K-1

> Hmmmmmm. My day for dopey questions, I guess. But where does one
> connect a ground wire to the Elecraft K-1? I'll be using the K-1 both
> in the shack as well as in the field and am accustomed to having a
> ground wire going to earth ground. Can someone steer me into the Halls
> of Wisdom, please?

>

> Thanks in advance!

>

> 72,

>

> Ron - KD5S

> --

> ***** Ron Evans *****

> KD5S (ex K5MVR) - Loving the "glow" since 1957

> Fort Worth, TX "Where the West Begins"

> mailto: cosmos41@ix.netcom.com
> http://www.geocities.com/sweetvengeance
> " The meek shall inherit the Earth, but not
> the mineral rights."
> -- J. Paul Getty
> *****
>
>

Date: Wed, 15 Oct 2003 10:30:17 -0500
From: "George, W5YR" <w5yr@att.net>
To: <n3aaz-qrp@juno.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [159400] Re: QRL Potential Problem
Message-ID: <004d01c39331\$3d003450\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

John, with all respect, I have to disagree with the comment that reduced receiver bandwidth does not aid the print on weak PSK31 signals. My experience has been completely to the opposite.

I use MixW with a macro that tunes the radio (IC-756PR02) such that the desired signal is translated to produce an audio frequency of 1500 Hz and then selects a 50-Hz very sharp filter.

The difference in copy improvement is astounding! A track barely visible in the noise and providing possibly 10% copy comes up and prints almost solid in most cases. This is especially true when there are strong stations in the nominal 3. kHz passband.

I know that the program does its own DSP filtering very well, but removing the effects of strong signals beforehand has produced very good results here.

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"Starting the 58th year and it just keeps getting better!"
w5yr@att.net

----- Original Message -----

From: "John R Kirby" <n3aaz-qrp@juno.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Wednesday, October 15, 2003 2:32 AM

Subject: Re: QRL Potential Problem

>
> I too share the concern with QRM es QRL to/from anystation during
> anymode.
>
> Not because CW is my primary mode any longer (OOTC here and did CW more
> than 30 years) but because it is just too easy to QSY a 'few Hz' and not
> QRM any station with any mode.
>
> MY problem is . . . not wanting to propagate this kind of thinking . . .
>
> " that *normally*, the digimode station is not "listening" but
> "watching" the
> frequency" . . .
>
> AND promote this kind of thinking . . .
>
> **NORMALLY** . . . The receiver bandwidth is not an issue in most new
> digital modes since computer software and the click of a mouse solves the
> 'selectivity' / 'tuning' problem. The RX BW is set to SSB WIDE, as such
> the waterfall display can 'watch' many more anymode QSOs than an operator
> can 'listen' to. A click of the mouse over a 'clear channel' on the
> waterfall display SETs the TX FREQ. ps this is MY operating
> procedure.
>
> **NORMALLY** (again my first hand experience) . . . Digimode PRINT does
> not improve with reduced receiver bandwidth since . . . since computer
> software and the click of a mouse "and now you know the rest of story"
> :>))
>
> True . . . RTTY . . . (and I run this mode too) has it's own 'set of
> conditions' where a band plan will not solve anything until global
> thinking is agreed upon.
>
> . . . If . . . there is no operator in the shack during some of the 'old
> auto' digimodes
> . . . THEN . . . 'that' operator should be chastised.
>
> Thank you VERY much ! ! !
> John

> N3AAZ
> 00TC
> FM 19 xa
>
>
> -----
> The best thing to hit the internet in years - Juno SpeedBand!
> Surf the web up to FIVE TIMES FASTER!
> Only \$14.95/ month - visit www.juno.com to sign up today!
>

Date: Wed, 15 Oct 2003 17:37:06 +0200
From: WJuergens@t-online.de (Wolf-Ruediger Juergens)
To: qrp-l@lehigh.edu
Subject: [159401] Re: 30 meter vertical ?
Message-ID: <200310151737.07196.wjuergens@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-15"
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Hi,
I'm using a modified version of the up&outer in 3 different
configurations. As vertical up&outer, flattop-dipole or inv-vee.
Bands are 40-10m.
<http://www.dl2wrj.de/ant/unitenne.html> (sri only in german, no time
until yet for translation).

The idea of this antenna comes from L. B. Cebik, W4RNL.
<http://www.cebik.com/aledz.html>
This antenna works very well, especially as vertical.

72 Wolf, DL2WRJ

--

Old programmers never die. They just branch to a new address.
(/usr/games/fortunes)

Date: Wed, 15 Oct 2003 15:40:10 +0000
From: jacksonharbor@att.net
To: qrp-l@lehigh.edu
Subject: [159402] Re: tick 4
Message-ID: <101520031540.12642.7f73@att.net>

Gang -

The chip used in the Tick-4 (and my own PK-3) are actually multi-chip modules of a sort. There is a PIC chip and then a much smaller 16 byte serial EEPROM chip and they are wired together. You can actually see this with the EPROM version of the part through the window.

So, I suspect that's why the vendor never sold the basis for the Tick-4 in a surface mount package, the dual chip nature of that PIC would either have been too large or just not amenable to the surface mount process for some other reason.

Best Regards,

Chuck Olson, WB9KZY
Jackson Harbor Press
<<http://jacksonharbor.home.att.net/>>

Date: Wed, 15 Oct 2003 11:59:29 -0400
From: "Carl Heidenblad" <carlh@adamslibrary.org>
To: <qrp-1@Lehigh.EDU>
Subject: [159403] For Sale z-11 tuner/SWL40 unbuilt
Message-ID: <004e01c39335\$513e8f30\$4200040a@adamslibrary.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I have for sale an LDG z-11 qrp autotuner in like new condition. \$125

Also, an unbuilt SWL40 kit. Unopened, with manual. (too many recent trades, ended up with two!) \$55

Carl Heidenblad, N1CUU

Outgoing mail is certified Virus Free.

Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.525 / Virus Database: 322 - Release Date: 10/9/2003

Date: Wed, 15 Oct 2003 09:04:04 -0700
From: "Doug Hendricks" <ki6ds@dpol.net>
To: <qrp-1@Lehigh.EDU>
Subject: [159404] QRPacificon Keyer Kits
Message-ID: <007601c39335\$f4b72960\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, we had a snafu with the delivery of some of the QRPacificon Keyer kits. Several of you have not received yours. If you are coming to Pacificon and want to participate in the special Audio QSO Party Friday night, just bring along any keyer and a set of paddles. You don't have to use the QRPacificon Keyer, any keyer will work.

We apologize for the inconvenience, but there is nothing we can do. I am really excited about the upcoming weekend, and always enjoy QRPacificon. The events will start on Friday night when we meet in the lobby of the hotel at 6:00 and then drive over to the California Burger, about 5 miles away, for a no host QRPacificon Banquet arranged by Jim Duffey, KK6MC/5. After the banquet, at 8:00 PM we will have a 1 hour qso party using our keyers. The idea is to make as many CW qso's as you can, logging every one of them, and then we will determine the winner by number of qso's. The exchange is:

Name Age City State

Mine will be:
Doug 55 Dos Palos, CA

If any vendors wish to set up on Friday night, they are more than welcome to.

72, Doug

Date: Wed, 15 Oct 2003 09:05:36 -0700
From: "Doug Hendricks" <ki6ds@dpol.net>
To: <qrp-1@Lehigh.EDU>

Subject: [159405] Missed a couple of speakers at Pacificon
Message-ID: <007c01c39336\$2d727a20\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yesterday when I posted the list of guys who have been speakers at Pacificon, I forgot 3 close friends. Brad Mitchell, Gary Diana, and Dave Gauding. I knew that I would forget someone, and apologize, but I just did it off the top of my shiny bald head. 72, Doug

Date: Wed, 15 Oct 2003 12:08:21 -0400
From: "Armin Hachmer" <armin@muskoka.com>
To: <w5yr@att.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [159406] Re: External Ground Connection on K-1
Message-ID: <002401c39338\$58faf800\$5e6c7bd8@muskoka.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

wow, are you saying grounding for the home shack txcvr, tuner, powersupply is also more trouble than help?
Armin, ve3teq

----- Original Message -----
From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, October 15, 2003 11:10 AM
Subject: Re: External Ground Connection on K-1

> Ron, the simple answer is that there is really no need to ground the K1.
It
> is a non-problem. <:}
>
> In over 57 years of operating amateur radio in many station setups, I have
> never used an external "r-f ground." On the whole, they tend to create
more
> problems than they solve.
>
> I would be glad to discuss this further privately if you have a real
concern

> over the need for a ground.
>
> 73/72, George
> Amateur Radio W5YR - the Yellow Rose of Texas
> Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
> "Starting the 58th year and it just keeps getting better!"
> w5yr@att.net
>
>
>
>
>
> ----- Original Message -----
> From: "Ron Evans" <cosmos41@ix.netcom.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Wednesday, October 15, 2003 8:00 AM
> Subject: External Ground Connection on K-1
>
>
> > Hmmmmmm. My day for dopey questions, I guess. But where does one
> > connect a ground wire to the Elecraft K-1? I'll be using the K-1 both
> > in the shack as well as in the field and am accustomed to having a
> > ground wire going to earth ground. Can someone steer me into the Halls
> > of Wisdom, please?
> >
> > Thanks in advance!
> >
> > 72,
> >
> > Ron - KD5S
> > --
> > ***** Ron Evans *****
> > KD5S (ex K5MVR) - Loving the "glow" since 1957
> > Fort Worth, TX "Where the West Begins"
> > mailto: cosmos41@ix.netcom.com
> > http://www.geocities.com/sweetvengeance
> > " The meek shall inherit the Earth, but not
> > the mineral rights."
> > -- J. Paul Getty
> > *****
> >
> >
>

Date: Wed, 15 Oct 2003 11:16:34 -0500

From: Ron Evans <cosmos41@ix.netcom.com>
To: qrp-1@Lehigh.EDU
Subject: [159407] Norcal BLT has sold
Message-ID: <3F8D72E2.3080204@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Thanks to all who inquired. Wish I'd had a dozen of 'em.

72,

Ron - KD5S

--

***** Ron Evans *****

KD5S (ex K5MVR) - Loving the "glow" since 1957

Fort Worth, TX "Where the West Begins"

mailto: cosmos41@ix.netcom.com

<http://www.geocities.com/sweetvengeance>

" The meek shall inherit the Earth, but not
the mineral rights."

-- J. Paul Getty

Date: Wed, 15 Oct 2003 12:09:29 -0500
From: "George, W5YR" <w5yr@att.net>
To: "Armin Hachmer" <armin@muskoka.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [159408] Re: External Ground Connection on K-1
Message-ID: <009301c3933f\$1b157680\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Depends, Armin . . .

There are three functions for an external ground on a ham station:

1. AC safety ground - this is provided by the green wire in all line cords and in the house wiring if it is to code. An extra wire from the equipment to an external ground rod is redundant for this purpose and usually an NEC code violation which requires all grounds to be bonded together in specified ways, etc.

2. Lightning "protection" - seldom helped much by a single ground rod - takes a concentrated effort to obtain an effective lightning protection system. A single ground rod and wire connection can actually make the station more vulnerable to a lightning discharge.

3. "Good r-f ground" - this is the one I am talking about.

No. 3 above is "required" only if it is serving as part of the antenna system, and generally that is a very poor way to operate. Beyond that, any effort at bringing the station equipment to "Earth ground potential" by just connecting a wire to a rod driven into the ground is questionable for a number of reasons.

First, at r-f the impedance of both the wire to the ground rod and the impedance of the connection between the rod and the actual conducting portion of the "Earth ground" can be, and usually is, high enough on one or more bands to serve only to actually **elevate** the station above the desired zero r-f potential.

That is what causes more troubles than a "good r-f ground" is alleged to eliminate. Plus, that ground wire is carrying r-f current and thus radiates, which can be a source of RFI in itself, especially if connected to an internal pipe of some sort which then carries the r-f all through the house, etc.

Consider also that a copper pipe in the house may not actually contact the soil for a considerable distance and even then may be placed in a shallow trench lightly filled with dirt. True there is substantial capacity to earth and it is this that probably accounts more for any "grounding" effect than the actual ohmic contact with the soil.

Second, there are really only two practical ways to place the station at near zero r-f potential:

1. use a system of driven grounds consisting of $1/4$ wave wires for each band, one end of each connected to the station "ground" point (usually the transceiver case or the tuner) and the other end insulated and not connected to anything. These wires being in the near field of the antenna(s) have a current induced in them and a voltage which is maximum at the open end and very nearly zero at the end attached to the equipment.

2. "tune" the wire going to the questionable Earth ground connection. MFJ makes a convenient tuner for this consisting only of a series resonant circuit switched for various bands and an r-f current indicator. Tune for maximum current and theoretically that condition series-resonates the ground wire and places the equipment at the same potential as the Earth ground connection. But that connection may or may not be at all functional at r-f -

especially if it has a tenuous connection to very lossy soil, etc.

I strongly prefer #1 for r-f problems.

Again, I see no need for "grounding" the shack equipment, provided that the shack is wired to code, as is the house, and that the antenna system is such that it does not rely upon any conductive path from the transmitter/tuner to "ground."

Frankly, the notion of a "station ground" can be traced to the 1920's when the antenna systems used for transmitting and receiving demanded that the equipment be connected as well to a "good ground" as to a "good antenna." Those days are past.

There are many who find that using a station ground makes them feel better or actually reduces or resolves some problems. For them, whatever they are doing is appropriate and advisable. I doubt that the actual mechanisms involved are as simple as "dumping undesired r-f into the ground" as many think a ground connection does.

The Earth is not some great infinite sink into which all undesired r-f can be dumped. It is just another large conductor - of usually doubtful r-f properties - that may or may not be useful when attached in some way to the station equipment.

None of these remarks is intended in any way to denigrate the need for an effective and code-conforming earth safety ground for the a-c line service. Or for the purpose of avoiding or minimizing lightning damage.

But, the notion that running a wire 5 to 20 feet from the rig to an 8 ft ground rod driven into sandy soil 5 years ago is likely to prevent "r-f in the shack" is a bit of a stretch.

No flame responses required or accepted. I know that this notion conflicts with what many folks are doing and have done for years. I am glad that you feel that it works for you, especially if nothing else does. But, in fact, it is very difficult to make a case for curing r-f problems with a conductive r-f ground system. It is far better to avoid them in the first place by using a properly designed and installed antenna system that excludes the station equipment from any radiation duties.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"Starting the 58th year and it just keeps getting better!"

w5yr@att.net

----- Original Message -----

From: "Armin Hachmer" <armin@muskoka.com>

To: <w5yr@att.net>; "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Wednesday, October 15, 2003 11:08 AM

Subject: Re: External Ground Connection on K-1

> wow, are you saying grounding for the home shack txcvr, tuner, powersupply

> is also more trouble than help?

> Armin, ve3teq

>

> ----- Original Message -----

> From: "George, W5YR" <w5yr@att.net>

> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

> Sent: Wednesday, October 15, 2003 11:10 AM

> Subject: Re: External Ground Connection on K-1

>

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> > w5yr@att.net

> >

> >

> >

> >

> >

> > ----- Original Message -----

> > From: "Ron Evans" <cosmos41@ix.netcom.com>

> > To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

> > Sent: Wednesday, October 15, 2003 8:00 AM
> > Subject: External Ground Connection on K-1
> >
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> > > Ron - KD5S
> > > --
> > > ***** Ron Evans *****
> > > KD5S (ex K5MVR) - Loving the "glow" since 1957
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> > > "The meek shall inherit the Earth, but not
> > > the mineral rights."
> > > -- J. Paul Getty
> > > *****
> > >
> > >
> >
>

Date: Wed, 15 Oct 2003 13:23:56 -0400
From: "Ron Pfeiffer" <n1zsw@hotmail.com>
To: neqrp@jona1.net, qrp-1@Lehigh.EDU
Subject: [159409] Results last nights NEQRP SSB NET
Message-ID: <Law9-F75EaJswFCH0zy00000050@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

It was a bad! called the net at 7:30PM on 7.29Mhz and after 12 minutes I
gave up
having heard no one. Noise was 10 over.

We will try again next week. I like to think it was band conditions and not
the

baseball playoffs!

Ron

Surf and talk on the phone at the same time with broadband Internet access.
Get high-speed for as low as \$29.95/month (depending on the local service
providers in your area). <https://broadband.msn.com>

Date: Wed, 15 Oct 2003 12:25:52 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "Elecraft " <elecraft@mailman.qth.net>,
 "qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [159410] Want to Trade for K2
Message-ID: <41200310315172552760@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

Looking for a K2 rig, and have to trade an excellent OMNI V complete with
all CW filters. The 250 Hz filter is by INRAD. Setup includes the 961
power supply with built-in speaker, and the 301 Remote Tuning Knob. Anyone
interested, please let me know. Thanks.

73,
--Doc/K0EVZ

Date: Wed, 15 Oct 2003 11:21:40 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: kc8aon@juno.com,
 Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [159411] Re: 30 meter vertical ?
Message-ID: <20031015182140.3381.qmail@web21412.mail.yahoo.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Rick, not a bad idea over all.

main issue is height! 47 feet. you could bend the top and bottom to reduce height to maybe 60-70% of this.

on LB Cebik's website (also in QST) he described a rotatable dipole for 17/15/12m feed with ladder line as a nice option to get on three bands with an antenna with a nice pattern. so you could indeed do something similar vertical. as you get further away from half wave resonance, however, the angle of radiation may not be what you want! it might be better to have separate verticals for 30/20 and 17/15/12/10 m. but try (and/or model) the single bander first.

QST did describe a 30m wire ground plane fed with coax. you could also multiband this with multiple length radiators and radials.

i confess i did feel a little quilt when i bought my R5 several years back, but it has been good to me - 5 bands in a small package. it is supplemented by HB antennas (off-center fed dipole and 10/6m quads).

happy erecting and radiating!

curt wb8yyy
fp-qrp #44 etc.

--- Rick McKee <kc8aon@juno.com> wrote:
> Been thinking of putting up some sort of vertical
> antenna for 10 thru 30
> meters, and was thinking of a 30 meter dipole fed in
> the center with 450
> ohm balanced feedline mounted vertically. Has
> anyone tried this and how
> well did it work out for you ? Just needing
> something to cover the
> higher bands and don't want to spend \$300 + for a
> commercial vertical !
> I may even try a 30 meter wire groundplane fed with
> balanced feedline -
> any advice ?
>

> 72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <>
> Grid: EM88rl
> SW-20+, SW-30+, SW-40+, Norcal BLT, Norcal Cascade,
> Yaesu FT-7,
> Homebrew 6V6 tube TX & Hallicrafters SW500 RX,
> PAC-12 Antenna
> QRP-L #2112, FPqrp #33, AR QRP, AmQRP, Ohio Valley
> Fists
> I'll give up CW & QRP when I'm dead ! MAYBE !
> didididadidah
>
>
>

> The best thing to hit the internet in years - Juno
> SpeedBand!
> Surf the web up to FIVE TIMES FASTER!
> Only \$14.95/ month - visit www.juno.com to sign up
today!

Do you Yahoo!?
The New Yahoo! Shopping - with improved product search
<http://shopping.yahoo.com>

Date: Wed, 15 Oct 2003 19:50:48 +0100
From: Howard Oakley <hoakley@btconnect.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [159412] Re: QRL Potential Problem.
Message-ID: <BBB35598.1DEDE%hoakley@btconnect.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

On 15/10/03 14:25, John Sielke wrote:

> These were all made BEFORE CW was dropped as a requirement by the IARU, so I
> would expect to see CW bands chopped even more.

John,

I don't see why the CW allocations should change at all, except in response to user demand. Dropping CW as a requirement for HF access has not altered the utility or benefits of CW in the slightest. VHF bands that have long not required CW have retained substantial allocations for CW, for example to

support EME. The imminent demise of CW as a major mode in ham radio can only be greatly exaggerated: there is no reason why it should not flourish.

72,
Howard.

Dr Howard Oakley
Isle of Wight, UK
M1BWR (IO90JO, EU-120)
Active from 80 m to 23 cm

Date: Wed, 15 Oct 2003 14:10:08 -0500
From: Ron Evans <cosmos41@ix.netcom.com>
To: qrp-1@Lehigh.EDU
Subject: [159413] External Ground Connection on K-1 -- THANKS!!
Message-ID: <3F8D9B90.9040108@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

My extreme gratitude to the many of you who responded with various ideas, opinions, and suggestions on the matter of using an external ground with the K-1.

Time just will not permit individual thanks to everyone, but several of you went way beyond the "second mile" with your in-depth and detailed suggestions, and I will certainly drop you a line of thanks just as soon as I can get everything sorted out!

The answers ran the gamut from "No rf ground required" to several means of connecting a ground wire to the back of the K-1. I received an education from W5YR's response, which makes a lot of sense and has got me scratching my head more than a little! Very nice job, George!

Thanks again to ALL of you!

Ron - KD5S

--
***** Ron Evans *****
KD5S (ex K5MVR) - Loving the "glow" since 1957
Fort Worth, TX "Where the West Begins"
mailto:cosmos41@ix.netcom.com
<http://www.geocities.com/sweetvengeance>

" The meek shall inherit the Earth, but not
the mineral rights."

-- J. Paul Getty

Date: Wed, 15 Oct 2003 14:17:33 -0500
From: Ron Evans <cosmos41@ix.netcom.com>
To: qrp-l@Lehigh.EDU
Subject: [159414] Antenna Tuner Question -- Thanks!!
Message-ID: <3F8D9D4D.1040207@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Sincerest thanks to all who suggested various tuners. To the one or two who persisted in trying to convert me to the "internal tuner" school, I compliment you on your fervor but must apprise you of your lack of success. *grin* To you, I will reply privately so that you may hopefully understand my reasons.

But, thanks to ALL for taking your valuable time and sharing so unselfishly of your knowledge, experience, and expertise. You're a great bunch of guys!

72/73,

Ron - KD5S (formerly K5MVR from 1957-2002)

--

***** Ron Evans *****

KD5S (ex K5MVR) - Loving the "glow" since 1957

Fort Worth, TX "Where the West Begins"

mailto: cosmos41@ix.netcom.com

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" The meek shall inherit the Earth, but not
the mineral rights."

-- J. Paul Getty

Date: Wed, 15 Oct 2003 12:19:12 -0700 (PDT)
From: <jhs001@heronetwork.com>
To: <qrp-1@Lehigh.EDU>
Subject: [159415] WANTED: MFJ 1025 or 1026 schematic
Message-ID: <1352.129.174.55.239.1066245552.squirrel@www.heronetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Does anyone have a copy of the schematic for either the MFJ 1025 or 1026?
If so, would you please email me a copy? Thanks.

Jason Hsu, AG4DG
personal@@@jasonhsu.com

Date: Wed, 15 Oct 2003 15:25:29 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [159416] New AT Sprint Mark II
Message-ID: <3.0.6.32.20031015152529.007dac10@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'll be bringing a prototype/demo of the new shirt pocket sized "AT Sprint Mark II" to show at Pacificon this weekend.

For those who won't be there to see it, here's some preliminary info.

Physicly, it's slightly larger than the original Altoids tin sized ATS. It's built on a 4.2" x 2.4" board and will go into a 4.7" x 3.1" x 1.1 plastic box. 98% of the parts are surface mount. The rig is controlled by a row of six push buttons, which are flush to the top of the box and covered by a sheet of mylar, which keeps grit out of the box. There are two small slide switches, one for power and one for an Rx input attenuator. The box is big enough to hold 9V's worth of "AAA" batteries.

The receiver is a classic '612 line up with a four xtal IF filter. Using four crystals in the filter gives much better opposite side band rejection than three crystals. The audio chain includes a band pass filter, a push button volume control and a headphone driver audio amp.

The VFO is the new AD9834 low power DDS and is controlled by a micro power MSP430 MPU. Rx idle current is currently 27 ma, but will hopefully be

further reduced to about 20 ma once I change to a low power reference clock and replace the 1 watt audio amp currently on the board to a 105 mw headphone amp. (that change will save 5 ma right there)

The transmitter is basicly the same as used in the original ATS, but with some minor changes which seems to have reduced the effiecentcy some, but made it more stable driving reactive loads and less likely to be affected by high SWR conditions. Typical power out is 2.5+ watts, with 9V supply.

Multi-band operation is agian achived using plug in band filter modules, with 20/30/40 supplied for sure and maybe 80 thrown in too. The rig currently weighs 6.6 oz, with six "AAA" batteries installed.

There is still some control program and circuit refinement to do. I expect the rig won't be ready to ship until after the new year, but I suppose it's not too early to start a list :-) Oh, projected price is \$185.00

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Wed, 15 Oct 2003 16:26:04 -0300
From: Blanco Hugo Daniel <blancoh@TELEFONICA.COM.AR>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [159417] Sub-Harmonic Mixer.
Message-ID: <3F525DF196D5D4118B370008C7E641B60F2BC891@MSTELEFONICA9>
MIME-Version: 1.0
Content-Type: text/plain

Hello Friends !!!

This my first posting, and I am wishing in advance You will forgive me for my bad english.

Well, for the subject, I'm needing information about this circuit (named also " russian mixer " because the RA3AAE contribution to its fame).

I need both basic and more advanced information about the theory of functioning of it like RF mixer (un-balanced, single-balanced, double-balanced ??) and its perfomance in this aplication (general information about NF, IP3, etc.), because I am going to make a home design

of a HF receiver (for amateur use, 14 MHz first), a superheterodyne type, and I wish to use the reduced LO's frequency for stability and noise advantage (only LC VFO here at present).

The information I have found to now is very poor in the explanation of internal works of this critter, and yes, I have searched in QRP-L (a bit) and Google (too much).

Thanks very much in advance to All of You.

73 and see You in the bands.

HUGO
LU8EHR
BUENOS AIRES
ARGENTINA

QRP-L # 2500

Date: Wed, 15 Oct 2003 16:23:39 -0400
From: Steve.Lawrence@ITWFEG.COM
To: ARDUJENSKI@aol.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [159418] Re: Battery charging question
Message-ID: <0F1934EBAC.CFCE8FB1-0N85256DC0.006F3121-85256DC0.007006FC@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Alan,
I purchased a Power Sonic PSC-12500A from Mouser which automatically shifts from fast charge to float charge. Seems to work pretty well, and from a SLA battery manufacturer too! <http://www.power-sonic.com>

I also own a "battery minder" from:
http://www.batterystuff.com/battery/batteryminder/batteryminder_popup.htm

That seems to work well. I have not verified it's restorative claim for bad SLA batteries, however. Both are simple devices: plug in and forget.
I like that!

73,
Steve
aa8af

ARDUJENSKI@aol.com
Sent by: owner-qrp-l@Lehigh.EDU
10/12/2003 02:36 AM
Please respond to ARDUJENSKI

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
cc:
Subject: Battery charging question

I was looking for a good battery charger for a 12v 5-7Ah gell cell that had some protection so it would not overcharge the battery. I was looking at the A &

A Engineering 1amp charger and was wondering if anyone has used this or have another recommendation
www.a-aengineering.com/
Thanks...

Alan KB7MBI in Woodinville, WA
FISTS 5702 / ARS / Proud member of ARRL
--- -- --- -- DIT DIT

Date: Wed, 15 Oct 2003 15:57:32 -0400
From: "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [159419] QRPacificon travelers
Message-ID: <000d01c39356\$928276c0\$07ea7182@mcmaster.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Attendees,

Am already anticipating those post-con posts here on QRP-L.
As you pack up gear for travel, hope y'all don't run afoul of security, especially with those "weapons of mass erection"
- you know, those nasty sounding items like "wrist rocket", and "black widow pole", and "lead sinker".
After all, Arnold's in charge now |-)

Date: Wed, 15 Oct 2003 16:56:47 -0400
From: Steve.Lawrence@ITWFEG.COM
To: pwomble@verizon.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [159420] Re: 1/2 wave antenna failure
Message-ID: <0F1B008003.0317DB2D-0N85256DC0.007210C5-85256DC0.00730FC3@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Paul...

I've copied a post I made over a year ago to QRP-L for your reference. It just seemed to be good thinking concerning 1/2 wave end-fed antennas & lengths, so I've kept this "on file" as this topic comes up from time to time.

Steve

I've read, and re-read Alan Chester's (G3CCB) (SK) article "Taming the End-Fed Antenna" which appears on page 118 of "The "Antenna File" published by RSGB, with great interest. Mr. Chester rationalized that there might be some "friendly" length of wire usable for an end-fed antenna, that doesn't present a tough-to-tune, high impedance load on a selected set of bands. The undesirable high impedance situation arises when the wire length approaches 1/2 wavelength (or multiple of) on the frequency in question. He concludes a length of 1/8 - 3/8 wavelength or 5/8 - 7/8 wavelength (or multiples thereof) represents the desirable target lengths to reduce the impedance, and therefore the problem of devising a suitable match.

>From this information, Mr. Chester proceeds to plot the length of wire, staying away from 3/8 - 5/8 wavelengths (and multiples thereof) on the bands 160 - 10m. From this plot, several end-fed wire lengths are chosen:

26.5m, 15.0m, and 10.0m. These lengths are analyzed in further detail. In brief, he concludes the 26.5m wire would be suitable for 160 - 10m; the

15m length for 80, 40, 20, 17, 15, 12, 10; and the 10m length for 80, 40, 30, 17, 15, 12, 10.

While I haven't taken his conclusions into the field (this is on my "to do" list for future portable antenna experiments), his thinking seems

rational. He also addresses the resulting match situation with these chosen wire lengths. Please check out the article for all the details.

I would be interested in your (or anyone's) experience in testing Mr. Chester's end-fed wires.

73,
Steve
AA8AF

"Paul Womble" <pwomble@verizon.net>

Sent by: owner-qrp-l@Lehigh.EDU

10/12/2003 07:25 PM

Please respond to pwomble

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
cc:
Subject: 1/2 wave antenna failure

Well...today was the first day I have tried an end fed 1/2 wave antenna. I keep reading how great they are, easy to deploy in the field, etc.

For 20m it should be 33'. My trusty tape measure verifies that's how long the wire I cut is. 16' counterpoise.

I tried it today with the K2 internal tuner, a ZM-2, and my HB L/C tuner. None of the tuners would tune it on 20m. Best the K2 tuner could get was 8.4 to 1.

The ZM-2 would tune it fine on 40m. I even checked continuity of the wire...thinking maybe it was damaged.

Any thoughts?

Paul K4FB

Date: Wed, 15 Oct 2003 16:26:38 -0500
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu, "George Baker" <w5yr@att.net>,

"Lew Paceley" <lew@paceley.com>,
Subject: [159421] NETXQRP Club Meeting, Saturday 18 October
Message-ID: <3.0.2.32.20031015162638.00837a30@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRPers,

All who are interested are invited to attend. Hope to see you there.

Saturday, October 18, 2003 -- 1:00 to 3:00 pm (or so)

Los Hermanos
1500 W. Moore Ave (US80 West)
Terrell, TX 75160
972-524-5580

Directions:

Los Hermanos is on the West side of Terrell. It is on the North side of US80 (Moore Ave.) about a block East of the intersection of US80, SH205, and SH148. SH205 goes North from US80 toward Rockwall and SH148 goes South back across IH20. Los Hermanos is a small restaurant next to a Payless Shoe Source.

If you have a favorite QRP something you'd like to bring along, please do. Each month we also have a *Door Prize* drawing. Bring an item to share for the door prize table. A drawing is held at the end of the meeting to *redistribute* the wealth. Everyone attending gets a chance at one (or more) of the prizes. Good food, good conversation and good company. Come join the fun!

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, FP #601 oo <http://www.netxqrp.org>

Date: Wed, 15 Oct 2003 17:41:28 -0400
From: "Carl Heidenblad" <carlh@adamslibrary.org>
To: <qrp-l@Lehigh.EDU>
Subject: [159422] WTB: Signal Generator
Message-ID: <000901c39365\$17b03630\$4200040a@adamslibrary.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Looking for a working signal generator in reasonable condition with a manual. Anyone looking to part with one?

Carl Heidenblad, N1CUU

Outgoing mail is certified Virus Free.

Checked by AVG anti-virus system (<http://www.grisoft.com>).

Version: 6.0.525 / Virus Database: 322 - Release Date: 10/9/2003

Date: Wed, 15 Oct 2003 17:42:04 -0400

From: Ed Tanton <n4xy@earthlink.net>

To: qrp-L Reflector <qrp-l@lehigh.edu>

Subject: [159423] Mixers

Message-ID: <6.0.0.22.2.20031015173605.0498c4d0@pop.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Hugo... I did some looking around and found several interesting-mostly in Russian-URLs. They are listed below. I wonder if you know my friend Uranito, (Alberto U. Silva LU1DZ <uranito@infovia.com.ar>)? I am a member of GACW, and he is a very interesting and knowledgeable fellow who might be able to help with your information.

Here are the URLs I found:

1. <<http://www.diagram.com.ua/list/rst395.shtml>>

2. <<http://home.online.no/~la8ak/c11.htm>> This one is VERY good... see Figure 3a, down the page.

3. <<http://qrp.kd4ab.org/2002/020918/0092.html>> From QRP-L Archives Comment by Oleg Borodin, RV3GM

(<<[mailto:master72@lipetsk.ru?Subject=Re:%20RA3AAE%27s%20mixer/doubler&In-Reply-To=%3C008e01c25f66\\$cea332e0\\$d5e522c3@user%3E](mailto:master72@lipetsk.ru?Subject=Re:%20RA3AAE%27s%20mixer/doubler&In-Reply-To=%3C008e01c25f66$cea332e0$d5e522c3@user%3E)>master72@lipetsk.ru
>)

4.

<http://www.ibiblio.org/pub/academic/agriculture/agronomy/ham/QRP/20020919.qrp.v02_n683>

QRP-L Digest #2683

5.

<http://www.ibiblio.org/pub/academic/agriculture/agronomy/ham/QRP/20020919.qrp.v02_n699>

QRP-L Digest #2699

The second URL belongs to LA8AK and is a good one for many things!!!

Finally, while it is not a specific part of your question, may I recommend you take a serious look at the Lossless Mixer designs
<<http://www.home.earthlink.net/~chistrask/LLFBMxr1.pdf>> by Dr. Chris Trask, Principle Engineer, Sonoran Radio Research (<chistrask@earthlink.net>). I am building one of his similar designs: an "Augmented Lossless Feedback Amplifier" at:
<<http://www.home.earthlink.net/~chistrask/augamps.html>>. For additional information about his many papers and patents (including LOTS of mixers) see: <<http://www.home.earthlink.net/~chistrask/>>

P.S. A Language NOTE: I used my English > Spanish translation program that Uranito (LU1DZ) and Arnie (C02KK) BOTH say is not worth using to reprint the above in Spanish. But the way I see languages, is that Hugo can take what he didn't understand in English, and crosscheck it with the translation... and anything that might help is better than nothing. Of the languages I have learned to use-from notes, on CW, mind you-Spanish has been the ONE I paid the least attention to... to my chagrin and regret! While I'm trying to correct that, I haven't gotten very far... yet!!!

72/73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

"He that gives up a little liberty to gain
temporary security will lose both and
deserve neither".

--Benjamin Franklin

"Suppose you were an idiot ...
and suppose you were a member of
Congress... but I repeat myself."

--Mark Twain

Date: Wed, 15 Oct 2003 16:51:20 -0400
From: Kevin Gunther <beeltee@optonline.net>
To: ARDUJENSKI@aol.com,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [159424] Re: QRP Oldies: the HW-7,8 and 9?
Message-ID: <013001c39367\$a2a59120\$9b825643@cdghome>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

----- Original Message -----

From: <ARDUJENSKI@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, October 14, 2003 5:44 PM
Subject: QRP Oldies: the HW-7,8 and 9?

> Except for the occasional HW-8 reference I rarely see the HW-7 or HW-9
used
> in any of the sprints. Just curious if any are still using these ORIGINALS
or
> QRP?
>
> Alan KB7MBI in Woodinville, WA
> FISTS 5702 / ARS / Proud member of ARRL
> --- --- --- --- DIT DIT

I use all three of them, but the HW-7 the least.

Kevin
W1FWB

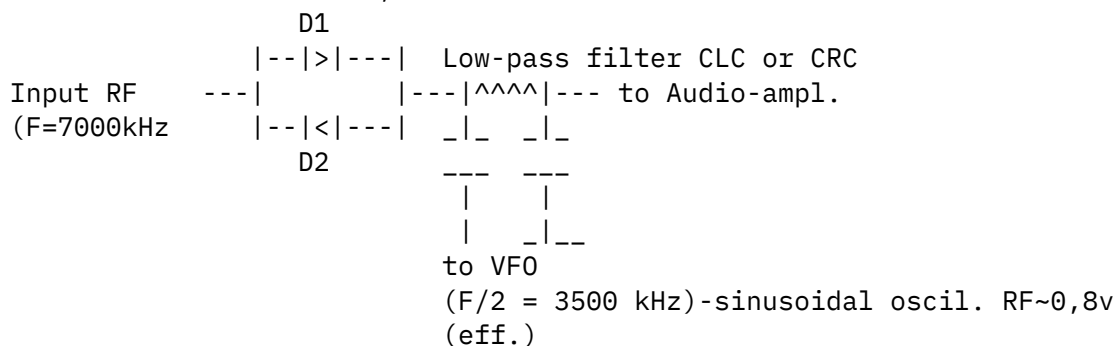
Date: Thu, 16 Oct 2003 02:13:39 +0400
From: "Oleg V. Borodin" <master72@lipetsk.ru>
To: Blanco Hugo Daniel <blancoh@TELEFONICA.COM.AR>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [159425] Re: Sub-Harmonic Mixer.
Message-ID: <1295754234.20031016021339@lipetsk.ru>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dear OM Hugo!

BHD> Well, for the subject, I'm needing information about this circuit (named BHD> also " russian mixer " because the RA3AAE contribution to its fame).

It is very simple!

Two siliconic RF diodes, one inverted for second:



Positive part of VFO sinusoid open D2, but negative half of period opened D1. It is possible to use VFO with twice sub-harmonic of received frequency ($F_{vfo} = F_{rx} / 2$).

This mixer used in direct conversion receivers by RA3AAE (Vlad Polyakov). I never has heard about to use this mixer in super-heterodyne RX's. Also, I want to remark, I has made a many DC RX's with this mixer, it works very well. See the scheme of "Gnomik" trcvr with this mixer here at RU-QRP Club Web page <http://ruqrp.narod.ru/gnomik.htm>

Hope, I help a little.

Wish you all the best!

72! de RV3GM Oleg V. Borodin

RU-QRP Club <http://ruqrp.narod.ru>

=== In QRP We Trust! ===

End of QRP-L Digest 3074
